

ABSTRACT

A liquid reservoir tank assembly includes a gas-liquid separator, such as an air-oil separator. A tank body has an open end, a portion of the tank body forming a liquid separation chamber, another portion of the tank body forming a liquid reservoir. A tank cover covers the open end of the tank body, the tank body and the tank cover providing a gas inlet and a gas outlet with a gas flow through the separation chamber from the gas inlet to the gas outlet. The gas-liquid separator is mounted in the separation chamber in the gas flow between the gas inlet and the gas outlet. The separator has a coalescing stage layer and a drain stage layer arranged radially symmetrically about an axis extending through the interior of the separator, the coalescing stage layer being upstream of the drain stage layer. Each of the layers is generally frustoconical in shape.